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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/842,542	04/26/2001	Masayuki Nishiguchi		7853	
759	90 06/29/2005		EXAM	INER	
Jay H. Maioli			MEI, XU		
Cooper & Dunh	am			<del></del>	
1185 Avenue of the Americas		ART UNIT	PAPER NUMBER		
New York, NY 10036			2644		
			DATEMAN DD 07/00/0005		

DATE MAILED: 06/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
Office Action Summary		09/842		NISHIGUCHI ET AL.				
		Examin	·	Art Unit				
		Xu Mei		2644				
	The MAILING DATE of this communic	ation appears on t	he cover sheet with the	correspondence address				
Period f		·						
THE - External after - If th - If NO - Fail Any	MORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNIC ensions of time may be available under the provisions of r SIX (6) MONTHS from the mailing date of this commune period for reply specified above is less than thirty (30) or period for reply is specified above, the maximum stature to reply within the set or extended period for reply wireply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION.  37 CFR 1.136(a). In no nication.  days, a reply within the subtry period will apply and fill, by statute, cause the a	event, however, may a reply be to tatutory minimum of thirty (30) da will expire SIX (6) MONTHS fror pplication to become ABANDON	imely filed  ays will be considered timely.  m the mailing date of this communication.  ED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	on <u>26 April 2001</u> .						
2a)□	This action is <b>FINAL</b> . 2b	o)⊠ This action is	non-final.					
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice	e under <i>Ex parte</i> (	Quayle, 1935 C.D. 11, 4	453 O.G. 213.	•			
Disposit	tion of Claims							
4)⊠	Claim(s) 1 and 4-15 is/are pending in	the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1 and 4-15</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction	on and/or election	requirement.					
Applicat	tion Papers							
9)□	The specification is objected to by the	Examiner.						
10)□	The drawing(s) filed on is/are: a	a) accepted or	b) objected to by the	Examiner.				
•	Applicant may not request that any objecti	ion to the drawing(s	) be held in abeyance. So	ee 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the	he correction is requ	ired if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).				
11)[	The oath or declaration is objected to I	by the Examiner.	Note the attached Offic	e Action or form PTO-152.				
Priority	under 35 U.S.C. § 119							
12)⊠	Acknowledgment is made of a claim for	or foreign priority (	ınder 35 U.S.C. § 119(	a)-(d) or (f).				
a)	⊠ All b)□ Some * c)□ None of:							
	1.☐ Certified copies of the priority de	ocuments have be	en received.	•				
	2.⊠ Certified copies of the priority de	ocuments have be	en received in Applica	ition No. <u>07/600,818</u> .				
	3. Copies of the certified copies of	f the priority docur	nents have been receiv	ved in this National Stage				
	application from the Internation	•						
*	See the attached detailed Office action	for a list of the ce	rtified copies not receiv	ved.				
Attachmei	• •		_					
	ce of References Cited (PTO-892)	0.048)	4) Interview Summar Paper No(s)/Mail [	ry (PTO-413) Date				
· —	ce of Draftsperson's Patent Drawing Review (PTC mation Disclosure Statement(s) (PTO-1449 or P			Patent Application (PTO-152)				
	er No(s)/Mail Date	-,	6)					

## DETAILED ACTION

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1 and 4-15 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-2 of U.S. Patent No. 6,695,477. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in the

application are broader than the ones in the patent.  $\underline{214}$  U.S.P.Q. 761 In re Van Ornum and Stanz.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 4-15 are rejected under 35 U.S.C. 103 as being unpatentable over Yamamoto et al. (US-5,056,145, hereinafter, Yamamoto) in view of Esteban et al (US-4,455,649).

Regarding claims 1 and 4-15, Yamamoto discloses a portable audio signal reproducing apparatus (as shown in Figs. 1-2 and 4-5) including a control circuit 13 (i.e., microcomputer) and signal processing circuit 15. Yamamoto also discloses the audio signal reproducing apparatus with the IC memory 10 (within an IC card 9) that is capable of storing sound data groups corresponding to musical sound or the like (col. 6, lines 33-41), and the IC card 9 (i.e., memory chip) is served as an external storage unit is insertable into and detachable from

(i.e., exchangeable or removable as claimed) the audio signal reproducing apparatus, as per claim 1. An earphone 8 used for generating analog audio signals to the user is shown and would have met headphone driver unit as claimed. What does Yamamoto not teach is the portable audio signal reproducing apparatus including signal compression and decompression of stereo (left and right) audio data using a high efficiency compression method.

Esteban teaches a method which including sub-bands encoder and decoder (high efficiency compression and decompression circuits/method) for audio signal processing with broader bandwidth for progressively higher frequencies audio signal (higher frequency audio signals are inherently have higher energy or power when compared with lower frequency signal) to improve data communication efficiency (see Figs. 2-4 and their description). It would have been obvious to one of ordinary skill in the art to utilizes the audio signal compression and decompression technique of Esteban (for both left and right audio signals compression and decompression) for the portable audio signal reproducing apparatus of Yamamoto in order to improve data communication and processing efficiency for the reproducing apparatus.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Weiner, Nishiguchi et al, Bush, Okada et al, Neoh, and Fischer are made of record here as pertinent art to the claimed invention.

The cited references disclose various sound generating devices or headphone devices including memory or storage means and digital audio signal processing means for audio signals reproduction.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xu Mei whose telephone number is 571-272-7523. The examiner can normally be reached on Monday-Friday (9:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 2644

06/23/2005